Using the myNAS Mobile App

myNAS enables you to easily monitor PBS jobs on your iPhone, iPad, or Android device. With myNAS, you can access job and resource information at your convenience and receive notifications when jobs start, stop, or change status. In addition, you can send job output to the myNAS web server to make it available for viewing in the app.

The information in this article applies to the most recent versions of myNAS:

myNAS for iOS
        Version 1.1.6
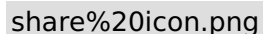myNAS for Android
        Version 1.1.4.2

To download and install myNAS, see Installing the myNAS Mobile App.

Accessing Job Information in myNAS

Information about your jobs and NAS resources is provided in the **Jobs**, **Resources**, and **News** tabs. The **Help** tab links directly to this article.

View Your Jobs

myNAS opens on the **Jobs** tab, which displays a list of your most recent Pleiades, Electra, and Endeavour. Tap any job in the list to see details such as tasks, models requested, time requested, efficiency, group ID, queue, job state, and mission (these options can be customized in the **Settings** tab). You can email job information by tapping the tapping the

share%20icon.png
 icon (iOS) or the **Share** button (Android) on the details page.

You can also view output files in the **Jobs** tab if you send the output to the myNAS web server. See Viewing Job Output Files to learn more.

Note: Job information is updated approximately every two minutes, so there may be a short delay before myNAS can access information about a job event.

Display Status of HECC Resources

Tap **Resources** to see current system status. The default view shows Pleiades usage and node utilization. Tap the menu icon in the top left corner to see status for Electra, Endeavour, storage filesystems, home filesystems, and the number of jobs running on each system.

Get the Latest News

The **News** tab provides a list of HECC news articles, with the most recent at the top. Tap an item in the list to view the full text.

Customize myNAS Views

Use the **Settings** tab to configure the way your jobs are displayed in myNAS. Customizable settings include:

- **Show jobs in states...**
  Select the job statesâ finished, running, waiting, and/or heldâ that you want to see in the main list on the **Jobs** tab. The default selections are **Finished**, **Running**, and **Waiting**.

- **Fields to show in Job List**
  Select the PBS fields you want to see for every job shown in the main list on the **Jobs** tab. The default fields are **job id**, **host machine**, **job name**, and **time elapsed**.

- **Fields to show in Job Details**
  Select the PBS fields you want to see listed in each job's individual details page. Most of the available fields are selected by default.

- **Number of jobs to show**
  Select the number of jobs you want to see in the main list on the **Jobs** tab. The default is 20 (iOS) or 5 (Android).

Note: To change the display order of job states or PBS fields on your iOS device, hold and drag the handle icon (

handle%20icon(1).png
) next to the option you want to move. (This function is not yet available on Android devices.)

Receiving Notifications

myNAS can notify you when a job starts or finishes running, or when output files are available for viewing in the app. Notifications are enabled by default. To manage notifications, exit the myNAS app, open the system settings on your device, and navigate to the myNAS entry to view or change options.

Viewing Job Output Files in myNAS

In order to view output files in the myNAS app, you must first instruct your PBS job to send the files to the myNAS web server, as described in the next section. You will then be notified when the output is available for viewing on your device.

Sending Output Files to the myNAS Web Server

To send an output file to the myNAS web server, run the `myNASsend` command using the following syntax:

```
pfe21% myNASsend -j job_id -d "output_name" filename.txt
```

For PBS scripts, **-j *job_id*** is not required:

```
pfe21% myNASsend -d "output_name" filename.txt
```

Note: When you specify an image file, you must use the correct extension (for example, .jpg, .gif, or .png).

For more information, see **man myNASsend**.

WARNING: Although your data is password protected on the myNAS web server, it is not as secure as data stored inside the NAS enclave. If you do not want to risk unauthorized access to your output files, do not instruct your PBS jobs to send to output to the myNAS web server.

Viewing Your Output Files

After you send your output files to the myNAS web server, they will be available for viewing on the **Jobs** tab of the app. In the main list, tap a job that has output available, then tap the output filename to open it for viewing. You can email or copy the output by tapping the

share%20icon.png
 icon (iOS) or the **Share** button (Android).

Note: On iOS devices, jobs that have output files available for viewing are identified in the main job list with an icon that indicates the type of file or files. (This function is not yet available on Android devices.) For example:

File type	Status	Icon
Text file	Unread	file_single_text_unread.png
Multiple text files	Some read	file_multi_text_some_read.png
Image file	Read	file_single_graphic_read.png
Multiple text and image files	Read	file_multi_mixed_read.png

Cellular Data Usage

To avoid exceeding data usage limits when you download and view output files, cellular data usage for the myNAS app is disabled by default. (This is not the same as the general cellular data option in the system settings on your device, which is *enabled* by default.) With cellular data usage disabled for myNAS, you can still monitor your jobs over a cellular network, but you will need WiFi access to download and view output files. To change this setting:

- iOS: In the myNAS app, tap the **Settings** tab to access the **Use cellular data** option.
- Android: In the system settings on your device, tap **Data Usage**, then navigate to the myNAS entry to access the **Restrict app background data** option.

Sending and Viewing Periodic Output Files

You can instruct a job to periodically send output to the myNAS web server by running the `myNASsendTail` command in the background of your PBS script, with `mpiexec` running in the foreground. For example:

```
pfe% myNASsendTail -d "output_name" -r 300 file1 file2 ... &
mpiexec ...
```

In this example, a tail of the output files is run every 300 seconds and results are sent to the

myNAS web server for browsing on your device. New files replace previous ones if they share the same description. Files with unique descriptions are retained.

For more information, see **man myNASsendTail** and the annotated sample PBS scripts, `tailTest.sh` and `tailTest.csh`, which are attached at the end of this article.

Note: Running the `myNASsend` or `myNASsendTail` commands less than two minutes after submitting the job may result in error. In this case, wait two minutes and try running the command again.

If you have any questions about using the myNAS app, please contact the NAS Control Room at (800) 331-8737, (650) 604-4444, or support@nas.nasa.gov.